

Fredrick Mwema

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50
papers

307
citations

11
h-index

16
g-index

53
ext. papers

417
ext. citations

1.2
avg, IF

4.47
L-index

#	Paper	IF	Citations
50	CNC Milling of Medical-Grade PMMA. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2022 , 12, 1-15	0.5	1
49	Machining of Poly Methyl Methacrylate (PMMA) and Other Olymeric Materials. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2022 , 363-379	0.2	
48	Demystifying Fractal Analysis of Thin Films: A Reference for Thin Film Deposition Processes. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 213-222	0.4	0
47	Optimization of material removal rate in the CNC milling of polypropylene + 60 wt% quarry dust composites using the Taguchi technique. <i>Materials Today: Proceedings</i> , 2021 , 44, 1130-1132	1.4	3
46	Influence of direct current (DC) on hardness of weld stainless steel coating \square A model for mild steel repair. <i>Materials Today: Proceedings</i> , 2021 , 44, 1133-1135	1.4	0
45	Conceptualizing Student Engagement and Its Role in Meaningful Learning and Teaching Experiences. <i>Advances in Educational Technologies and Instructional Design Book Series</i> , 2021 , 159-174	0.3	1
44	Surface Engineering of Materials Through Weld-Based Technologies. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2021 , 247-260	0.2	
43	The Mirage and Reality of Special Education in Developing Countries. <i>Advances in Early Childhood and K-12 Education</i> , 2021 , 143-159	0.2	0
42	Stress and Strain Distribution in the Upsetting Process. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2021 , 288-301	0.5	1
41	Effect of Surface Modification on the Properties of Polypropylene Matrix Reinforced with Coir Fibre and Yam Peel Particulate. <i>Scientific World Journal, The</i> , 2021 , 2021, 8891563	2.2	6
40	Determination of Thermo-Mechanical Properties of Recycled Polyurethane From Glycolysis Polyol. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2021 , 11, 75-87	0.5	
39	The effects of machining parameters on conventional machining: An overview. <i>Materials Today: Proceedings</i> , 2021 , 44, 1540-1542	1.4	
38	Progress in Optimization of Physical Vapor Deposition of Thin Films. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2021 , 246-262	0.5	
37	Environmental Education and Its Effects on Environmental Sustainability. <i>Advances in Educational Technologies and Instructional Design Book Series</i> , 2021 , 182-199	0.3	0
36	Severe plastic deformation-nanocoating for processing of biomaterials: A model for small-scale industry. <i>Materials Today: Proceedings</i> , 2021 , 44, 1235-1237	1.4	
35	Visual assessment of 3D printed elements: A practical quality assessment for home-made FDM products. <i>Materials Today: Proceedings</i> , 2020 , 26, 1520-1525	1.4	4
34	Dataset on impact strength, flammability test and water absorption test for innovative polymer-quarry dust composite. <i>Data in Brief</i> , 2020 , 29, 105384	1.2	7

33	Fused Deposition Modeling. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 ,	0.4	15
32	Dependence of fractal characteristics on the scan size of atomic force microscopy (AFM) phase imaging of aluminum thin films. <i>Materials Today: Proceedings</i> , 2020 , 26, 1540-1545	1.4	4
31	Micromorphology and nanomechanical characteristics of sputtered aluminum thin films. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020 , 51, 787-791	0.9	0
30	Optical properties, microstructure, and multifractal analyses of ZnS thin films obtained by RF magnetron sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 5262-5273	2.1	13
29	Multifractal and optical bandgap characterization of Ta2O5 thin films deposited by electron gun method. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1	2.4	26
28	Six sigma versus lean manufacturing [An overview. <i>Materials Today: Proceedings</i> , 2020 , 26, 3275-3281	1.4	19
27	Metal-Arc Welding Technologies for Additive Manufacturing of Metals and Composites. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2020 , 94-105	0.5	1
26	Print Resolution and Orientation Strategy. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 17-320.4	0.4	
25	Surface Engineering Strategy. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 51-68	0.4	
24	Multi-objective Optimization Strategies. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 33-49	0.4	
23	Basics of Fused Deposition Modelling (FDM). <i>SpringerBriefs in Applied Sciences and Technology</i> , 2020 , 1-15	0.4	24
22	Microstructure and surface profiling study on the influence of substrate type on sputtered aluminum thin films. <i>Materials Today: Proceedings</i> , 2020 , 26, 1496-1499	1.4	2
21	Microstructure and scratch analysis of aluminium thin films sputtered at varying RF power on stainless steel substrates. <i>Cogent Engineering</i> , 2020 , 7, 1765687	1.5	1
20	Challenges in facemasks use and potential solutions: The case study of Kenya. <i>Scientific African</i> , 2020 , 10, e00563	1.7	9
19	A systematic review of magnetron sputtering of AlN thin films for extreme condition sensing. <i>Materials Today: Proceedings</i> , 2020 , 26, 1546-1550	1.4	5
18	Effect of varying low substrate temperature on sputtered aluminium films. <i>Materials Research Express</i> , 2019 , 6, 056404	1.7	12
17	Fractal analysis of hillocks: A case of RF sputtered aluminum thin films. <i>Applied Surface Science</i> , 2019 , 489, 614-623	6.7	17
16	Mechanical Behaviour of Sputtered Aluminium Thin Films under High Sliding Loads. <i>Key Engineering Materials</i> , 2019 , 796, 67-73	0.4	3

15	The Use of Power Spectrum Density for Surface Characterization of Thin Films 2019 , 379-411		11
14	Finite element simulation of X20CrMoV121 steel billet forging process using the Deform 3D software. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	14
13	Data on the effect of high-pressure torsion processing on secondary cast Al-10%Si- Cu piston alloy: Methods, microstructure and mechanical characterizations. <i>Data in Brief</i> , 2019 , 25, 104160	1.2	1
12	Stereometric and scaling law analysis of surface morphology of stainless steel type AISI 304 coated with Mn: a conventional and fractal evaluation. <i>Materials Research Express</i> , 2019 , 6, 116436	1.7	9
11	Correction of Artifacts and Optimization of Atomic Force Microscopy Imaging. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2019 , 158-179	0.5	4
10	Microstructure and mechanical characterization of aluminum thin films on steel substrates. <i>Materials Today: Proceedings</i> , 2019 , 18, 2415-2421	1.4	
9	Micromorphology of sputtered aluminum thin films: A fractal analysis. <i>Materials Today: Proceedings</i> , 2019 , 18, 2430-2439	1.4	3
8	Properties of physically deposited thin aluminium film coatings: A review. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 306-323	5.7	53
7	Atomic force microscopy analysis of surface topography of pure thin aluminum films. <i>Materials Research Express</i> , 2018 , 5, 046416	1.7	34
6	Effects of forming parameters on metal flow behaviour during the MDF process: taguchi and response surface methodology optimisation. <i>Advances in Materials and Processing Technologies</i> , 1-18	0.8	
5	Advances in 3D printing materials processing-environmental impacts and alleviation measures. <i>Advances in Materials and Processing Technologies</i> , 1-11	0.8	1
4	Constitutive analysis of hot forming process of P91 steel: finite element method approach. <i>Advances in Materials and Processing Technologies</i> , 1-12	0.8	1
3	A five-year scientometric analysis of the environmental effects of 3D printing. <i>Advances in Materials and Processing Technologies</i> , 1-11	0.8	1
2	Investigation into the effects of milling input parameters on the material removal rate and surface roughness of polypropylene + 80 wt. % quarry dust composite during machining. <i>Advances in Materials and Processing Technologies</i> , 1-15	0.8	0
1	Analysis on behavior of Ti-6al-4v & Ti-5553 by performing turning operation using deform-3d. <i>Advances in Materials and Processing Technologies</i> , 1-18	0.8	